Awareness of nurses on distance education in Nepal

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Abstract

Introduction: Distance Education Technology is one of the most effective modes of imparting education and training for those who cannot afford formal education. This study aims to assess the awareness regarding distance education technology among graduate level students as an alternative approach for continuous advance level nursing education in Nepal.

Methods: The study has adopted descriptive cross-sectional design. The populations of this study were the graduate level nurses who were studying Bachelor of Nursing courses in three different institutes of Kathmandu valley. A non-probability convenient sampling technique was used to select the nursing institutes. A pretested semi-structured questionnaire was developed to collect data from 94 nursing students to assess their interest and desire regarding distance education. A semi-structured questionnaire was used to enquire regarding, personal biography of respondent; knowledge on distance education; use of distance education for continuous education; opinion on distance education as an effective mode of technology for continuous nursing education etc.

Results: Most of the respondents (81%) had heard about Distance Education Technology, but none of them had attended any academic course through distance education. Half of the respondents had some knowledge regarding distance education technology; among them (29.7%) could figure out that it is a type of interactive study between learners and facilitators from distance/far area; 38.2% recognized as an independent study, which is often provided by recognized Open University (13.8%); which can be performed from their own home (29.7%) as a means of corresponding course (17.02%). About (46.8%) knew that major area of instruction is via internet. Surprisingly (94.7%) of them were interested to study advance nursing courses through distance education in Nepal and among them (40.4%) would like to get higher degree via Distance Education Technology in Health Professions Education.

Conclusions: It can be inferred that majorities of graduate level nursing students are eager to upgrade their cognitive and psychomotor competencies for professional development by means of Distance Education Technology. It could be an alternative means of teaching even for those nurses who are hard to reach, and serving the mankind at the remote areas.

Key words: Continuous education, distance education, nurs

Introduction

Distance education is planned learning that normally occurs in a different place from teaching. It requires special techniques of course design, special instructional techniques, and special methods of well special organizational and administrative arrangements. The need

for distance education is also increasing worldwide. American Association of College of Nursing stated that "In USA, an estimated shortage of 5,00,000 registered nurses is expected by 2025 with 55% of surveyed nurses reporting their intention to retire between 2011 and 2020." Thus, distance education is growing trend in nursing.²

The concept of distance education in Nepal was initiated formally with the implementation of Radio Education Teacher Training Project (RETTP) in 1978. The project aimed at providing training to the rural untrained teachers and used radio as the main media apart from the printed self-learning materials.³

Distance education may become popular until the middle of this century when instructional Radio and Television become more popular.⁴ The 9th and 10th five year plan has also mentioned to establish Open University in Nepal.⁵ Ministry of Education has emphasized policy on Open and Distance Learning (ODL) in 2063.⁶ The power of growing use of information and Communication technologies and the resulting trend towards globalization have reduced the world into that of small village.⁷

Due to limited institutions and resources, it is being difficult for the emerging nurses to get higher education. Similarly, some students are interested in obtaining a degree to qualify for a better job as well as promotion. Now days, cost of education is very high so most of the nurses are unable to pay their fee for the further education. Also due to the geographical constraints, jobs and families, nurses are not able to obtain further education as education is mostly situated in the urban or central area. This study aims to assess the awareness regarding distance education technology among graduate level nursing students as an alternative approach for continuous advance level nursing education in Nepal.

Methods

The study has adopted descriptive cross-sectional design. The study was conducted from 15th March, 2009 to 17th March, 2009. The population of this study was the graduate level nurses who were studying 1st year Bachelor of Nursing courses in three different institutes of Kathmandu valley: (1) Nursing Campus (NC), Maharajgunj, (2) Asian College for Advance Studies (ACAS), Satdobato, Lalitpur, and (3) Stupa Health Care Center Co-operative Limited (SHCCCL), Baudha. Non-probability convenient sampling technique was used to select the nursing institutes. All together there were 124 BN 1st year students from three campuses but the only 94 students were participated in the study whereas 30 students did not return the form. Data were collected through self-report method by providing a prepared semistructured questionnaire for individual respondent. The information includes:

- Personal biography of respondent
- Knowledge on distance education
- Use of distance education for continuous education

 Opinion on distance education as an effective mode of technology for continuous nursing education

In order to maintain content validity, the respective questionnaire was prepared by reviewing related literature, and researcher's personal experience. A pilot study had been carried out on the 10% of the total sample in the similar setting, to see the reliability of the prepared instruments for the final data collection.

The investigator formally requested and obtained officially written permission to carry out the study from the three nursing campuses. Verbal consents were taken from all the students. None of the students were forced to participate and ethics was taken into consideration. The investigator briefed about the objectives of the study, followed by half hour duration of time to fill up the questionnaire.

The collected data were entered into SPSS version 11.5. Descriptive statistics were calculated.

Results

Majority (56.3%) of respondent were found to 21-25 years. In this study, respondents were from five regions with majority (51%) belonging to Central Development Region followed by (18%) from Western Development Region; however, (7.4%) of the respondents didn't response about their permanent address (Table 1). Majority (46.8%) of the respondents were unmarried out of total 24. Similarly, Majority of the (89.3%) respondents were from hospital background followed by (8.5%) NGO/INGO background. Likewise, there is high variability on durations of work experiences. Majority (74.4%) of the respondents had total duration of work experience between 2 to 6 years. Similarly, most of the respondents (81%) had heard about the Distance Education.

Table 1: Personal biography of respondents

(n = 94)

Demographic Characteristics Age of the respondents (years)	Number	Percent
21-25	53	56.3
26-30	17	18
31-35	8	8.5
36-40	4	4.2
Above 41	4	4.2
NR (No Response)	8	8.5
Permanent Address		
Far Western Development Region	5	5.3
Mid Western Development Region	13	13.8
Western Development Region	17	18

Central Development Region	48	51
Eastern Development Region	4	4.2
NR (No Response)	7	7.4
Marital Status		
Married	44	46.8
Unmarried	50	53.2
Name of Organization/Institut	ion*	
Hospital	84	89.3
Non-governmental organization	/INGO	8 8.5
Nursing Home	4	4.2
Campus/College	4	4.2
Primary Health Care Center	3	3.1
Others	2	2.1
Duration of work experience in	ı year	
2-6 years	70	74.4
7-12 years	11	11.7
13-18 years	9	9.5
19-24 years	3	3.1
NR (No Response)		1 1.1
* Multiple Responses		

Majority 80.9% of the respondents had heard about the distance education (DE) (Table 2). Likewise, majority 38.2% respondents opinioned that DE means Independent Study; 29.7% as interaction between students and teachers from far and study from own home; 17.02% as correspondence educational course and 13.8% as Open University. Similarly, majority 29.7 % of the respondents were familiar about Distance Education through friends. Likewise, Majority 43.6 % of the respondents were familiar about it between 1-24 months. There were 46.8% respondents who used internet as a media of instruction followed by 15.9% using radio is a media of instruction. Most of the respondents (61.7%) were unaware about the types of educational training courses which are available in DE. Most (65.9 % of sample) agreed that it saves time but is sometimes difficult to understand (59.5%).

Table 2: Knowledge on distance education

(n = 94)

		, ,
Knowledge regarding to DE	Number	Percent
Heard about distance education		
Treat a about distance education		
Yes	76	81
No	18	19
Knowledge regarding to distance education*		
Independent study	36	38.2
Interaction between students and		
teachers from far	28	29.7
Study from own home	28	29.7

Correspondence educational course Open University study Others	16 13 2	17.02 13.8 2.1
Sources of information about DE		
Friends Television Radio Internet Newspapers/magazines Others	28 20 19 11 7 9	29.7 21.2 20.2 11.70 7.4 9.5
Time period being familiar about DE	(in month	s)
1-24 25-48 49-72 73-96 1.06 97 and above	41 3 6	43.6 3.1 6.3 1
No Response	41	43.6
Total	94	100.0
Media of instruction in DE		
Internet Radio Television Printed materials Others	44 15 12 5 18	46.8 15.9 12.7 5.3 19.1
Knowledge on type of education train courses available in DE	ing	
Yes No No Response	33 58 3	35.1 61.7 3.2
Types of educational training courses	s available	in DE*
Degree Certifying Course Refresher Training Course Others	55 26 16	58.5 27.6 17.02
Advantages of distance education*		
Time save Low cost Critical thinking No need to separate with family Others	62 32 53 4	65.9 47 50 34.04 56.3 4.2
Disadvantages of distance education*		
Sometime difficult to understand No opportunity for group discussion Sometime technology difficulty Others * Multiple Responses	56 54 51 2	59.5 57.4 54.2 2.1

All respondents answered that they did not take any educational course through DE though they need to keep up to date knowledge, skills and attitude (73.4%). Majority 78.7% of the respondents recommended that DE is an effective technology for CE in Nursing in context of Nepal. Most of the respondents (94.7%) are interested to study through DE in Nepal and amongst them most (64.8%) are interested to study Master Degree Course. Likewise, 40.4% are interested to study health professions education, 32.9% are interested to study hospital related courses, and 28.7% are interested to study Community Health. Similarly, majority 32.9% respondents gave opinion that DE is an advance education of this century or era to get new knowledge, skills and attitude.

Table 3: Opinions on distance education as an effective mode of technology for continuous nursing education

(n = 94)

		(11 = 94)
Variables	Number	Percent
Reasons for continuous education*		
To keep up to date knowledge,		
skills and attitude	69	73.4
To face different new		
opportunities and challenges	62	65.9
To adjust in the new method	37	39.3
To perform specific tasks in the job	31	32.9
Others	6	6.3
Response regarding opinion on I	DE as an	effective
technology for continuous education	n in nursir	ıg
No	7	7.4
No Response	13	13.8
Yes	74	78.7
Total	94	100.0
Reasons regarding DE as an effect	tive techn	ology for
continuous education in nursing		
Didn't Gave Reason	36	38.3
Gave Reason	58	61.7
Total	94	100.0
Response regarding interest to study t	hrough D	E in Nepal
No	1	1.1
No Response	4	4.3
Yes	89	94.7
Total	94	100.0
Level of education*		
Master degree	61	64.8
PhD	24	25.5
Bachelor	18	19.1
Certificate	3	3.1
Others	1	1.06

Types of specialization*		
Health professions education	38	40.4
Hospital	31	32.9
Community Health	27	28.7
Others	3	3.1
Opinions about distance education*		
DE is an advance education of this		
century or era to get new knowledge,		
skills and attitude.	31	32.9
Should be started in different level		
and subject in nursing.	11	11.7
DE if brought into practice in Nepali		
education system, it will be		
definitely proved to be very effective		
because of its many advantages.	44	46.8
For the continuous education.	23	24.4
DE should be reached in rural areas.	9	9.5
* Multiple Responses		

Discussion

Most (56.3%) of the respondents were found to be between 21-25 years in the study which is similar to the study of Aslanian. Most of the respondents opinioned that continue nursing education is to enhance knowledge, skills and attitude. Continuous education plays a critical role in enhancing and updating the knowledge skills and attitude of health professionals and continues education is mandatory for license renewal to improve the quality of patient care. Thus continue education is very essential for nurses. Similarly, nurses need to be trained and their knowledge and skills constantly updated to keep pace with the demand of the country.

As most of the respondents belonged to Central Development Region of Nepal, they represented the urban community. In this context, to provide continuing education of health professionals in rural settings, development in information and communications technologies offers a potential to move the clinical training of health professionals away from the resource intensive urban academic health center to poor rural areas. ^{11, 12}

Likewise most of the respondents wanted to save time and financial expenses through DE, some of them wanted DE so that they could stay with their. According to Wambach et al, the changing health care system and increasing demands for primary care providers have prompted an increase in nurse practitioner programs in the United States. Nurses in rural areas that are underserved by primary care practitioners are often faced with time and distance barriers

in returning to school for advance education. To reduce time and distance barrier and foster continued residence in high need areas, school of nursing are turning increasingly to distance learning methods. ¹³ Carr also found similar result of cost saving in distance learning programs. ¹⁴

Similarly, most of the respondents (29.7%) flashed the answer on the meaning of DE which they mean it is an interaction between students and teachers from far which is also supported by Reinert & Fryback. According to them, trend toward off-campus classes has significant implications for nursing education, there is little research about the current use of distance learning by schools of nursing and they also linked that choice of an educational approach for developing countries should not only be affordability, but also affordable effective education by providing sufficient opportunity for contact with fellow students and lecturers to ensure development of critical thinking and reflective skills through interaction between students and teachers from far. 15 Also most of the respondents (38.2%) answered to the question of meaning of DE where they indicated an independent study which is also supported by Heimstra and he also stated DE is a life long learning.¹⁶

Finally, 13.8% respondent answered the need of an Open University regarding to question of need of Open University for DE. UNESCO also emphasizes to start or enhance Open University especially in developing countries.¹⁷

Two respondents opinioned that with busy modern lifestyle, DE is the most need of our life for the further education, which helps to identify and face different challenges. Similarly, eight respondents conceited DE to be more effective due to the many advantages behind it if brought into practice in Nepali education system and students and teachers will get more opportunity to use the free time in other productive works. Fifteen respondents explored that, DE is effective, advance method of training and education in which we do not need to go to college daily and routinely. They can start their learning in the sanctuary of their home and at their convenience. This education further educates people without interrupting their life style. Considering its importance scholars, Moore and Thompson also supported its development. Most researchs and scholars from the 1980s and 1990s concluded that distance education was to be considered as an effective measure by the achievement of learning.¹⁸ Similarly, there was better competency of students taught by distance education versus traditional classroom methods.19

Likewise most of the respondents 46.8% said internet is used as a media of instruction which is also supported by Kinley. Highlighting on DE, he insists that today's distance

education focuses on dramatic shifting towards network-based technologies and internet-based delivery system. Today the internet instruction is the most popular and fastest growing medium in the United States.^{20,21}

Majority (38.2%) of the respondents answered 'independent study for knowledge' regarding DE which is the basis for situated cognition and problem based learning. According to Streibel and Savery, DE is an alternative approach which is based on constructivist principle in which a learner actively constructs an internet representation of knowledge by with the material to be learned. ^{22, 23} The researchers believe that this study will provide baseline information for future researchers in the field of 'Distance Learning'. It will also be helpful for policy makers and administrators for formulating policy to launch various basic and post distant nursing educations in different levels.

Conclusions

Almost all respondents wanted to start distance education in nursing in Nepal as soon as possible to enhance knowledge, skills and attitude according to keep up with recent advances. Most of the respondents were interested in academic courses in health professions education and hospital and community health. Most of the respondents were interested to join Master degree followed by PhD.

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